PTO/SB/08A (07-05)

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1449/PTO **INFORMATION DISCLOSURE**

Sheet

STATEMENT BY APPLICANT (Use as many sheets as necessary)

Complete if Known				
Application Number	10/667,893			
Filing Date	September 23, 2003			
First Named Inventor	Redmon, David T.			
Art Unit	1724			
Examiner Name	Chester T. Barry			
Attorney Docket Number				

Constitution in	000		U. S. PATEN	T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (J Incom)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CB		US- 3,872,003	03-18-1975	Walker	2/24-47; 6/4-8
-		^{US-} 5,234,596	08-10-1993	Greeb	2/38-39; 3/38-48, 59-63
		US- 5,441,642	08-15-1995	Wickens	1/40-41, 2/30-51, 4/5-42,
CTB		US- 6,036,862	03-14-2000	Stover :	3/15-36; 6/15-55; 7/15-57;
		US-			8/14-07, 9/1-19/25;
CTB		US- 6,146,896 US-	11-14-2000	Pitz	1/47-2/61: 3/3 30: 4/13-49:
					6/5-02, 7/10-34;
CIB		US- 6,478,964	11-12-2002	Redmon, ·	Eig_13;6/33-46
CTR		^{US-} 4,288,394	09-08-1981	Ewing, et al.	of general interect
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CTB		WO 01/34527 A1	05-17-2001	Stover	see US Pat 6,036,682	
1	<u> </u>	EP 0732588-German text	09-18-1996	Hallas	with English abst.	
		EP 0732588-translation	09-18-1996	Hallas	machine translation	-
		DE 19509777A1-Germ. Txt.	09-19-1996	Hallas	see EP 0732588	-
CIB		DE 19509777A1-Partl.Tran.	09-19-1996	Hallas	by human translator	
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Signature CHESTER T. BARRY Considered 105

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Translation is attached.
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Substitute for form 1449/PTO

Sheet

Examiner

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

CHESTER T. BARRY

Complete if Known				
Application Number	10/667,893			
Filing Date	September 23, 2003			
First Named Inventor	Redmon, David T.			
Art Unit	1724			
Examiner Name	Chester T. Barry			
Attorney Docket Number	3085-004			

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Examiner Initials*	Oite No.1	Document Number Number-Kind Code ^{2 (4 known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Country Code ³ Number ⁴ 'Kind Code ⁸ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	1
CTB		DE 4229550, German text	03-10-1994	Hallas	with English abst.	
1		DE 4229550, translation	03-10-1994	Hallas	by human translator	
		JP 2000-069955, abstract	03-07-2000	Kawahara, et al.	English abst. only	
CLB.		JP 2000-069955, tramsltn.	03-07-2000	Kawahara, et al.	machine translation	

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OSDAGIA				Application Number	10/667.893	
INFO	DRMATION	DIS	CLOSURE	Filing Date	September 23, 2003	
STA	STATEMENT BY APPLICANT			First Named Inventor	Redmon, David T.	
	(Use as many sheets as necessary)			Art Unit	1724 ·	
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Sheet	3	of	4	Attorney Docket Number	3085-004	

			NON PATENT LITERATURE DOCUMENTS	
Examiner Cite No.1		Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
C	CB		WPCF ("Water Poll. Contr. Federation"), "Process Instrumentation and Control Systems", MOP ("Manual of Practice") #OM-5, 1984, pp. li, 3-7 and 20-21, WPCF, Wash., D.C., USA	
			ARTHUR et al., "Instrumentation in Wastewater Treatment Plants", MOP #21, 1978, pp. 28-34, 74, 75, 77 and 78, WPCF Sub-committee on Instrumentation, Wash., D.C., USA	
			STAHL et al., "Energy Conservation in the Design and Operation of Wastewater Treatment Facilities", MOP #FD-2, 1982, pp. 28-33, WPCF, Wash., D.C., USA	
			WPCF+ASCE ("Amer. Soc. of Civ. Engrs."), "Aeration, A Wastewater Treatment Process", MOP # FD-13, 1988, pp.10-12, 44-45, 112, 137-140, 142 & 144-147, Wash., DC & New York, NY	
			BOYLE et al., ASCE Comm. on Oxygen Transfer, "Design Manual, Fine Pore Aeration Systems", 1989, pp. 149-156 and 167, U. S. Env. Prot. Agency, Cincinnati, OH, US	
			TANUMA et al., "Dissolved Oxygen Control Using Aeration Exhaust Gas", Water Science and Tech., Jour. art. and abst., 1981, vol. 13, no. 9, pp. 183-188, Pergammon Press, GB	
			KOENIG et al., "Effect of air recirculation on composting system", Proceedings, AWMA ("Air & Waste Mgmt. Assoc."), 1998, Abstract of paper, AWMA, Pittsburgh, PA, USA	
			PELKONEN et al., "Modelling of oxygen transfer with off-gas method", 1989, Abstract of paper, Helsinki Univ. of Tech., Lab. of Sanitary and Env. Engg., Espoo, Finland	
			YUST et al., "Control of the specific oxygen utilisation", Trans. of the Inst. of Meas. and Control, 1984, Abst. of jour. art., Water Poll. Control, Burlington, Ont., CA	
C_{i}	B		LIBRA, et al., "Improving aeration efficiency using on-line off-gas measurements", Intl. Cong. on the Process Industries, Mar. '02, poster, Mex. DF, Tech. Univ. Berlin, DE	

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Signature	CHESTER T. BARRY	Chilos	Considered	10/68 / 15
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¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO	Complete if Known			
	Application Number	10/667,893		
INFORMATION DISCLOSURE	Filing Date	September 23, 2003		
STATEMENT BY APPLICANT	First Named Inventor	Redmon, David T.		
(Use as many sheets as necessary)	Art Unit	1724		
	Examiner Name	Chester T. Barry		
Sheet 4 of 4	Attorney Docket Number	3085-004		

Examiner Initials No.1		NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		REDMON. BOYLE & EWING, "Oxygen transfer efficiency measurements in mixed liquor using offgas techniques", WPCF Journal, Nov., '83, pp. 1338-1347, Vol. 55, No. 11, WPCF, USA			
		REDMON, "Alpha factors - measured for various types of aeration systems by off-gas analysis", publication of Redmon Engineering Company, 1998, pp. 1-13, Racine WI, USA			
		MARX, et al., "Optimizing step feed aeration design using off-gas testing", 70th Annual WEF Conf., Chicago, repub. by Earth Tech, 1997, pp. 1-9, Sheboygan, WI, USA			
		REDMON, et al., "Measuring the impact of a 3-hp blower assist on the aeration efficiency of a 50-hp aspirating aerator", TAAPI Journal, Jan. 1992, pp. 105-110, USA			
		DAUGHTERY, et al., "Aeration system retrofit design optimization procedure", Proceedings, Central States WEF Conf., reprint by the authors, 1995, pp. 1-46, Milwaukee, WI, USA	- 18		
		REDMON, et al., "Pilot studies and full scale performance evaluation of a membrane disk aeration system", TAPPI Proceedings, 1992 Environmental Conference, pp. 563-577			
		REDMON, David T., professional resume, with bibliography of illustrative publications relating to off-gas testing, Redmon Engineering Company, 2005, 6 pages, Racine, WI, USA			
		ASCE ("Amer. Soc. of Civ. Engrs."), "Measurement of oxygen transfer in clean water", ANSI/ ASCE Standard 2-01, approved June 1992, pp, 1-41 & index, ASCE, New York, NY, USA			
2 B		ASCE, "Standard guidelines for in-process oxygen transfer testing", ASCE Standard 18-96, 1997, cover, abstract page, pp. iii-vii, ix and x, and pp. 1-49, New York, NY, USA			

Examiner	CHECTER	7/1/2	Date	1 /
Signature	CHESTER T. BARRY	(40)	Considered	11)/5/05
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